

CLAIMS

What is claimed is:

1 1. A portable device, comprising:
2 a sensor to sense an audio signal; and
3 a control unit communicatively coupled to the sensor, the control unit to
4 receive a first audio signal from a storage unit, generate a second audio signal based on at
5 least a portion of the sensed audio signal to reduce an undesirable audio signal, combine
6 the first audio signal and the second audio signal, and provide the combined signal
7 through a speaker.

1 2. The portable device of claim 1, wherein the control unit generates the
2 second audio signal that is out of phase with the sensed signal.

1 3. The portable device of claim 2, wherein the control unit generates the
2 second audio signal that is substantially 180 degrees out of phase with the sensed signal.

1 4. The portable device of claim 1, wherein the control unit receives the first
2 audio signal comprising digital music.

1 5. The portable device of claim 1, wherein the sensor is a microphone.

1 6. The portable device of claim 1, wherein the sensor is located on a
2 headphone set that is capable of interfacing with the portable device.

1 7. The portable device of claim 1, wherein the control unit generates the
2 second audio signal based on at least one of a selected range of frequencies and
3 amplitude of the sensed signal.

1 8. A method, comprising:
2 receiving a first audio signal;
3 converting the first audio signal to an analog audio signal;
4 generating a second audio signal to reduce an undesirable sound; and
5 combining the analog audio signal and the second audio signal.

1 9. The method of claim 8, further comprising providing the combined signal
2 to a speaker.

1 10. The method of claim 8, wherein generating the second audio signal
2 comprises receiving a sensed signal and generating an out of phase signal with the sensed
3 signal.

1 11. The method of claim 10, wherein generating the out of phase signal
2 comprises generating a signal that is substantially 180 degrees out of phase with the
3 sensed signal.

1 12. The method of claim 8, wherein receiving the first audio signal comprises
2 receiving a signal comprising at least one of voice and music data.

1 13. An article comprising one or more machine-readable storage media
2 containing instructions that when executed enable a processor to:
3 receive a first audio signal and a second audio signal;
4 generate an audio signal to reduce an undesirable audio signal based on at
5 least a portion of the second audio signal;
6 combine the first audio signal and the generated audio signal; and
7 process the combined signal.

1 14. The article of claim 13, wherein the instructions when executed enable the
2 processor to convert the first audio signal to an analog signal.

1 15. The article of claim 13, wherein the instructions when executed enable the
2 processor to provide the converted signal to a speaker.

1 16. The article of claim 13, wherein the instructions when executed enable the
2 processor to receive the second audio signal from a microphone.

1 17. The article of claim 13, wherein the instructions when executed enable the
2 processor to generate the audio signal that is out of phase with the second audio signal.

1 18. The article of claim 13, wherein the instructions when executed enable the
2 processor to generate the audio signal.

1 19. A wireless phone, comprising:
2 a transceiver;
3 a speaker; and
4 a control unit to process a first audio signal received from the transceiver,
5 generate a second audio signal to reduce an undesirable audio signal, combine the first
6 audio signal and the second audio signal, and provide the combined signal to the speaker.

1 20. The wireless phone of claim 19, further comprising at least one sensor to
2 sense an audio signal, wherein the control unit generates the second audio signal based on
3 the sensed audio signal.

1 21. The wireless phone of claim 20, further comprising a CODEC to process
2 the first audio signal.

1 22. The wireless phone of claim 20, wherein the control unit generates the
2 second audio signal that is substantially 180 degrees out of phase with sensed audio
3 signal.

1 23. A wireless phone of claim 19, further comprising an interface to allow the
2 wireless phone to reduce the undesirable audio signal while the transceiver is not in use.

1 24. The wireless phone of claim 19, further comprising a storage medium to
2 store at least one music file.

1 25. The wireless phone of claim 19, further comprising a plurality of sensors
2 to sense audio signals.

1 26. A communications device, comprising:
2 an output interface;
3 a sensor to sense an audio signal;
4 a generator to generate an audio reduction signal based on at least a
5 portion of the sensed audio signal;
6 a signal adder to combine an audio signal with the audio reduction signal;
7 and
8 a control unit to provide the combined signal to the output interface.

1 27. The communications device of claim 26, wherein the control unit converts
2 the audio signal to an analog signal.

1 28. The communications device of claim 26, wherein the generator generates
2 the audio reduction signal that is out of phase with the sensed signal.

1 29. The communications device of claim 28, wherein the generator generates
2 the audio reduction signal that is substantially 180 degrees out of phase with the sensed
3 signal.

1 30. The communications device of claim 28, wherein the sensor is a
2 microphone and the output interface comprises an interface to a speaker.